TALKIE-WALKIE

Ref.: TALK10

- USER'S MANUAL -

Congratulations

You have just purchased a qualified 2 Way Radio. Please read this operation instruction carefully before use. Please keep this operation instruction with care for future reference.

Safety Precautions

When using this unit, basic Safety Precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit or mentioned in this operation instruction.
3. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water such as bathtub, shower or pool. Immersion of this unit in water could cause an electrical shock.
5. Place the unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating.
7. Install the unit where no one can step or trip on the cord.
8. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
9. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to authorized service center or qualified technician when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
10. Do not expose the unit to extreme temperatures such as areas near a hot radiator or stove or in a hot car.
11. Do not place lighted objects such as candles, cigarettes on the unit.
12. Do not use this unit to report a gas leak in the vicinity of the leak.

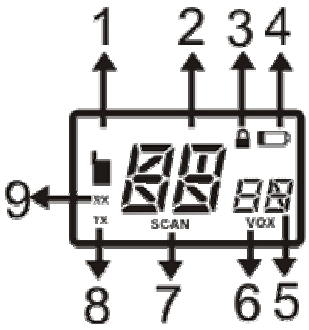
WARNING:

To prevent the risk of fire or electrical shock, do not expose this unit to rain or any type of moisture.

Control Buttons

Display Screen Guide

1.Normal Walkie Talkie Mode
2. Channel Number
3. Key Lock Indicator
4. Battery Level Indicator
   -- Full Battery: No battery Icon
   -- Low Battery: Blinks, need to change or recharge the batteries
   -- In Charging: Shows but not blinks
5. Sub-code
6. VOX
7. Channel Scan
8.Transmitting Mode (TX)
9.Receiving Mode (RX)



Remarks:

When you turn on the unit, all above display icons would appear at the screen to ensure the operation. The display icons would disappear after 1 second.

Other features of various symbols shown on the LCD.

Symbol	Major feature
CH	Channel Selection
SC cd	Subcode Selection
Voc	VOX
Sc an	Auto-scan of Channel
PA	PTT Auto

Mon	Monitor Function
CALL	Call Tone Selection
kB	Key Beep
R	Roger Beep
RM	Mosquito Repelling Function
LG	Lighting Function

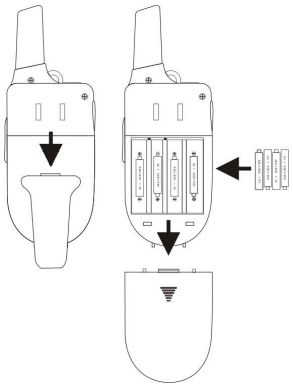
Battery Instruction

A. <u>Safety Instructions</u>

To reduce the risk of fire or injury to persons while using battery(ies), read and follow these instructions.

1. Use only the type and size battery(ies) specified in the operation instructions.
2. Do not dispose of the battery(ies) in fire. They may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive an may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling battery(ies) in order no to short out the battery(ies) with conducting materials such as rings, bracelets, and keys. The battery(ies) or conductor may overheat and cause burns.
5. Do not attempt to recharge the battery(ies) provided with or identified for use with this product that are not intended to be charged. The battery(ies) may leak corrosive electrolyte or explode.
6. Do not attempt to rejuvenate the battery(ies) provided with or identified for use with this product by heating them. Sudden release of the battery(ies) electrolyte may occur causing burns or irritation to eyes or skin.
7. When replacing battery(ies), all batteries should be replaced at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged battery(ies). (Applies to products employing more than on separately replaceable primary battery)
8. When inserting battery(ies) into this product, the proper polarity or direction must be observed. Reverse insertion of battery(ies) can cause charging, and that may result in leakage or explosion.
9. Remove battery(ies) from this product if storing over 30 days because the battery(ies) could leak and damage the product.
10. Discard “dead” battery(ies) as soon as possible since “dead” batteries are more likely to leak in a product.
11. Do not store this product, or the battery(ies) provided with or identified for use with this product, in high-temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting. Batteries should be stabilized at room temperature prior to use after cold storage.
12. If your product uses rechargeable battery(ies), charge the battery(ies) only in accordance with the instructions and limitation specified in the User Manual.

B. Battery Installation



1. Switch off the radio and remove the belt clip.
2. Open the battery door.
3. Insert 4 x AAA alkaline batteries according to the anode-cathode signs shown in the battery door.
4. Close the battery compartment door.

C. Low Battery Alert

1. When the battery level becomes low, the battery icon blinks twice in every second.
2. When the battery is too low, the unit will power off automatically.

D. Recharging Function (Optional)

The battery icon shows while charging no matter the unit is on or off until the batteries are fully charged. While charging, **PTT** key is not available for use.

1. Please charge the rechargeable batteries before first time usage.
2. Use the supplied AC/DC Charger or Desktop charger.
3. Charging time is not over 8 hours.

- Recharging by AC/DC charger :

  Battery icon appears when the unit is in charging.

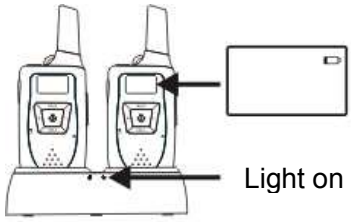
(Unit is turned off.)

(Unit is turned on.)

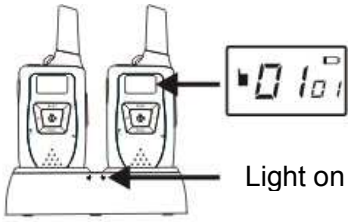
  Battery icon disappears when the unit is fully charged.

- Recharging by desktop charger (Optional) :

  Battery icon appears and red light at desktop charger lights on when the unit is in charging.



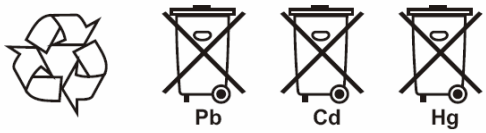
(Unit is turned off.)



(Unit is turned on.)

  Battery icon disappears and red light at desktop charger lights off when the unit is fully charged.

E. Battery Disposal



Batteries bearing one of the symbols shown opposite must not be disposed in normal domestic waste. Check with local waste management codes for possible special disposal instructions.

Quick Start

A. Power On / Off

1. Press and hold ⏻ key for 2 seconds to power on the radio;
2. Meanwhile there is a “Beep” sound to indicate the unit is power on
3. Press again ⏻ during standby operation to turn off the radio. A “Bi” sound will also be heard, indicating the radio is going to be switched off.

B. key Lock / Unlock Keypad

1. Press and hold **MENU** key for 2 seconds to lock the key.
2. Only **PTT, CALL**, **Vol +** & **Vol -** buttons can be activated during key locked operation.
3. Press the **MENU** key again to unlock the keypad.

C. Channel Selection

1. Press **MENU** key once to select channel selection menu.
2. Press ⏻ key to confirm and channel number flashes.

3. Press **+** / **-** key to alter the channel.
4. Press ⏻ key to confirm the channel and return to main screen.

D. Subcode Selection

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **SCod** appears on LCD, then press ⏻ key to confirm and sub-code number flashes.
3. Press **+** / **-** key to alter the sub-code from 00-38.
4. Press ⏻ key to confirm the sub-code and return to main screen.

E. Make a Call

1. Press **CALL** key once to make a calling tone.
2. There are short calling melodies indicate the starting and ending of transmitting call tone.

F. Transmitting message

Press and hold **PTT** key to talk to other user. **TX** shows to indicate message transmission.

G. To Receive a Call

Release **PTT** or **CALL** key and wait for signal. **RX** indicating radio is in receiving mode.

H. Talk Over Earphone (Optional)

Simply plug the earphone into the Earphone Jack, press **PTT** key of the earphone and speak.

Radio Setting

A. Volume Level Adjustment

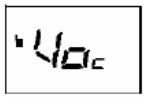
1. Press **+** / **-** key to adjust the volume level from 01 to 07.
2. Press Ⓘ key to confirm and return to main screen.

You may not press Ⓘ key to confirm the volume setting and return to main screen after 2 seconds automatically.

B. Activate / Close the VOX

VOX is the voice activating transmission function. Users can talk and communicate with each other without pressing and holding the PTT button.

1. Press MENU key to enter menu setting.
2. Press **+** / **-** key until **Voc** appears on LCD, then press Ⓘ key to confirm and the current VOX status("OF "/ "ON VOX") flashes.
3. Press **+** / **-** key to change **ON** or **OF** to activate or close this function.
4. Press Ⓘ key to confirm the setting and return to main screen.



Remarks:

- The default setting of VOX function is OFF.
- When setting VOX ON, "**VOX**" shown on the LCD.
- When setting VOX ON and activating the mosquito repelling function, the unit will transmit the sound of mosquito repelling

C. Activate / Close the Auto-scan of Channel

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **Scan** appears on LCD, then press Ⓘ key to start channel scanning.
3. Start channel scanning from the present channel. Press **+/-** key to change the channel scan direction.
4. Scanning process will stop for 10 seconds when it finds the same channel & sub-code where transmission is taking place.
5. Press Ⓘ key to stop scanning or channel scan will start again after 10 seconds.

D. Activate / Close the PTT Auto Function

By activating PTT Auto Function, user can talk and communicate with each other without pressing and holding **PTT** button at maximum 3 minutes.

D1. Activate the PTT Auto function

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **PA** appears on LCD, then press Ⓘkey to confirm and the current PA status "**ON**" or "**OF**" flashes.
3. Press **+** / **-** key to select **ON** to activate this function.
4. Press Ⓘ key to confirm and return to the main screen.

D2. PTT Auto operation ("PA on" selected) :

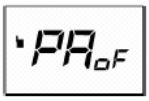
1. Press PTT key to start talking.
2. Press over 5 seconds, the backlight of units is on and "TX" flashes on the LCD. Release **PTT** key to talk to your friends automatically.
3. Press **PTT** key again to end the talk and exit PTT Auto mode.

Remarks: In PTT Auto mode:

- If no press **PTT** key within 3 minutes, then the unit will automatically exit **PTT** Auto mode and return to standby status.
- In PTT Auto mode, VOX function is not available for use.

D3. Close the PTT Auto function

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **PA** appears on LCD, then press Ⓘkey to confirm and the current PA status "**ON**" or "**OF**" flashes.
3. Press **+** / **-** key to select **OF** to close this function.
4. Press Ⓘ key to confirm and return to the main screen.



E. <u>Activate / Close the Monitor Function</u>

Monitor function is used during weak transmission, by activating it, all signal in the same channel will be received.

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **Mon** appears on LCD, then press Ⓘkey to activate Monitor Function.
3. Press **MENU** key again to close Monitor Function and return to the menu setting.

Remarks: Under MON function, press PTT, CALL, + / - key, the MON status will not be changed.

F. <u>Selecting the Call Tone</u>

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **CALL** appears on LCD, then press Ⓘ key to confirm and call tone number flashes.
3. Press **+** / **-** key to select Call Tone(01-05), Call tone demonstration will be heard in each selection.

4. Press ⏻ key to confirm the setting and return to main screen.

Remarks: The default setting of Call Tone is 01.

G. Selecting the Key Beep

Activate / Inactive the key beep according to your own preference.

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **KB** appears on LCD, then press ⏻ key to confirm.
3. Press **+** / **-** key to change **ON** or **OF** to activate or close this function.
4. Press ⏻ key to confirm and return to the main screen.

Remarks: The default setting of key beep is ON.

H. Selecting the Roger Beep

When the another party has activated the Roger Beep Function, the user can hear an ending tone (roger beep) when ending the talk.

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **R** appears on LCD, then press ⏻ key to confirm.
3. Press **+** / **-** key to change **ON** or **OF** to activate or close this function.
4. Press ⏻ key to confirm and return to the main screen.

Remarks: The default setting of roger beep is ON.

I. Activate / Close the Mosquito Repelling function

Under Mosquito Repelling function, the unit will emit a frequency continually to repel mosquito. **"RMON"** will flash on LCD together with the sound of repelling mosquito indicate the function is operating.

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **RM** appears on LCD, then press ⏻ key to confirm.
3. Press **+** / **-** key to change **ON** or **OF** to activate or close this function,
4. Press ⏻ key to confirm and return to the main screen.

Remarks:

Activate the Mosquito Repelling function :

- Under standby mode, if there is no operation in 3 seconds, the radio will automatically return to **RM0N** flashes screen with mosquito repelling sound.
- The sound of mosquito repelling will still be heard while selecting the menu setting.
- During channel scanning, the sound will pause ; the sound will be heard again when the scanning stops
- While transmitting or receiving signal, mosquito repelling sound will pause ; while signal transmitting or receiving stops, the sound will resume automatically.
- When setting VOX ON , the sound of mosquito repelling will be transmitted.

J. Lighting Function

1. Press **MENU** key to enter menu setting.
2. Press **+** / **-** key until **LG** appears on LCD, then press ⏻ key to confirm.
3. Press **+** / **-** key to switch **OF** / **ON** / **SO**.
   OF means the light is turned off.
   ON means the light is turned on.
   SO means flashing light, you may regard it as SOS light.
4. Press ⏻ key to confirm and return to the main screen.

Remarks:
Flashing light mode :
Quick flash (3 times) → Long flash (3 times) → Quick flash (3 times)

Quick switch to activate Flashing Light

1. In standby status, press and hold **+** / **-** key until up to volume level max. 07 or min 01, the flashing light will be automatically activated after 1 second.
2. You must enter into menu to close flashing lighting.
3. User cannot power off the unit if the flashing light is turned on.

Other Functions

Auto Squelch (SQ)
Auto Squelch Control eliminates unwanted interference during communication.

LCD Backlight
LCD Backlight would be on for 10 seconds once any key is pressed.

Auto-resume of The Menu
When the menu is opened, if there is no operation in 15 seconds, it will return to the main screen automatically.

Setting Memory
All setting set before the radio is off are memorized and will automatically resume to it when turning on the radio again. All the setting is not memorized when the unit is powered off and changed with the battery.

Fast Changing Of Channels
Use **+** or **-** key to select the menu or adjust channels, sub-code, volume, etc., it will change the number sequentially if you press the **+** / **-** key for more than 1 second.

TECHNICAL SPECIFICATIONS

Description	Specifications
Power Output	500mW
Operating Frequency	446.00625 ~ 446.09375MHz
Channels	8
Sub-code	38
Modulation	FM
Communication Range	Un-obstructed conditions: Up to 10 km
VOX Trigger	+/- 65 dB
Power Source	4 AAA Alkaline battery (600mAh, 1.2V) X2 (NO included)
Battery Life	15 hours (5% Transmission, 5% Reception, 90% Standby)
Fully Charging Time	< 8 hours.

PMR446 Transmit-Receive Frequencies (MHz)

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	446.00625	4	446.04375	7	446.08125
2	446.01875	5	446.05625	8	446.09375
3	446.03125	6	446.06875		

Interference Eliminator Code Chart (Hz)

Code	Frequency	Code	Frequency	Code	Frequency
1	67.0	14	107.2	27	167.9
2	71.9	15	110.9	28	173.8
3	74.4	16	114.8	29	179.9
4	77.0	17	118.8	30	186.2
5	79.7	18	123.0	31	192.8
6	82.5	19	127.3	32	203.5
7	85.4	20	131.8	33	210.7
8	88.5	21	136.5	34	218.1
9	91.5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151.4	37	241.8
12	100	25	156.7	38	250.3
13	103.5	26	162.2		

Communication Environment

1. General communication environment

a. Within the communication range, there is no equipment produces the interference signal which power is more than or equal to output power of WT-552, for example high voltage power cable, radio station & etc.

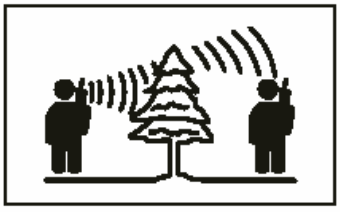
b. Within the communication range and under open area, there is no large-scale buildings with metal act as the block.

2. Perfect communication environment

Based on above 2 general communication environment and under open area, communication range can be over 10 km when 2 communicators are positioned at horizontal straight sight.

3. Poor communication environment

There is solid block between 2 communicators, it is suggested not to communicate under this environment.



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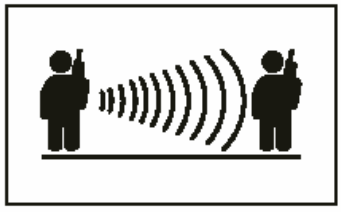
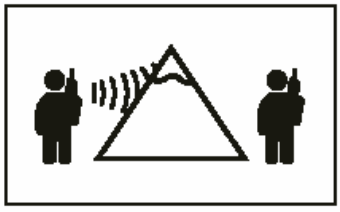


2. Perfect Communication Environment



3. Poor Communication Environment

TROUBLE SHOOTING

Problem	Solution
No Power	- Reposition or replace batteries
Message Not Transmitted	- Make sure the PTT button is completely pressed as you transmit. - Reposition or replace batteries
Message Not Received	- Confirm radios have the same channel setting. - Make sure PTT is not inadvertently being pressed. - Obstructions operating indoors or in vehicles may interfere with communication. - Change your location. - Check to make sure volume is loud enough to be heard. - Reposition or replace batteries
Hearing Other Conversation / Noise / Sound of Mosquito Repelling	- Shared channel may be in use, try another. - VOX function and Mosquito Repelling Function is activated, turn off mosquito repelling function.

Limited Talk Range	- Steel/concrete structures between each other, heavy foliage will decrease communication range, check for clear line of sight to improve transmission. - Wearing radio close to body such as in a pocket or on a belt will decrease range, change location of radio.
Heavy Static or Interference	- Radio are too close to each other. Radio must be at least 15 feet apart, increase your distance. - Radio are too far apart. Obstacles interfere with transmission. - Talk range is up to 10 km in clear and unobstructed conditions.

Caution:

- Please avoid charging non-rechargeable batteries in the product as charging operation can only be performed with suitable rechargeable batteries.
- Please use only supplied accessories or optional accessories produce by our company or it might cause defect or damage to the unit.
- Please refer our distributor for optional accessories produce by our company.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. (TSUEN SHING, BT-101-AC)
- Do not hold the antenna while the radio is in use, or transmissions quality affected.
- Attention should be drawn to the environmental aspects of battery disposal.(e.g. Before scrapping the appliance, remove the batteries and place them in the appropriate battery connect station.)